

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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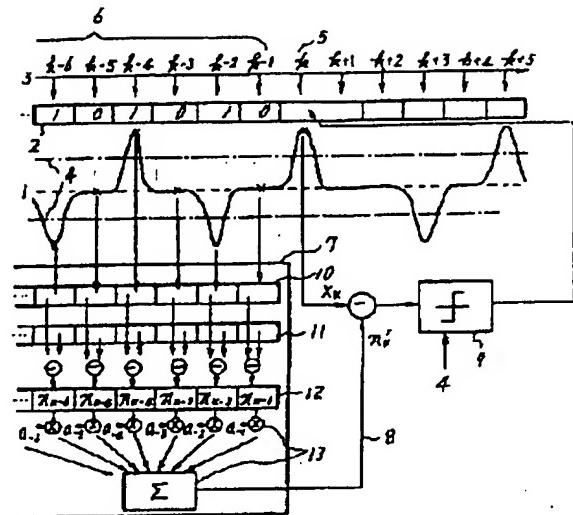
APPLICATION DATE : 28-03-90  
 APPLICATION NUMBER : 02076879

APPLICANT : HITACHI LTD;

INVENTOR : OUCHI YASUHIDE;

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TITLE : METHOD AND DEVICE FOR  
 REGENERATING DIGITAL SIGNAL



**ABSTRACT :** PURPOSE: To improve a signal to noise performance in regeneration by performing prediction by using a noise a noise signal component superimposed on a past regenerative signal estimated from a regeneration, and lowering the noise level of the regenerative signal.

CONSTITUTION: As for the identification result of a sampled signal at the present identification point 5 and a previous identification point 6 and a noise superimposed on the signal of a targeted regeneration system, the known correlation information are utilized. The correlation component of the noise can be eliminated and the noise level is lowered by predicting a noise component 8 to be superimposed on the signal at the present identification point 5 in a prediction elimination filter 7 based on the identification result and the correlation information, and inputting a signal value to an identifier 9, and also, the signal to noise performance in signal identification can be improved by making it into white. In such a manner, it is possible to eliminate a predictable noise component from the regenerative signal, or to make the regeneration system follow up the fluctuation of the noise in the optimum fashion, and to effectively improve the signal to noise performance of the regeneration system.

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